

7/26/02

To: SHIH-WEN HSIEH


Re: 09/863,467 US 5,907,335

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**Thanks,
Darcy Bates
STIC-EIC2800
306-5419
CP4-9C 18**

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Terms: **patno=5907335** ([Edit Search](#))

08747883 5907335 May 25, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
5907335

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May 25, 1999

Wet wiping printhead cleaning system using a non-contact technique for applying a printhead treatment fluid

INVENTOR: Johnson, Eric Joseph, Encinitas, CA; Mattis, Eric, La Jolla, CA; Michael, Donald L., Corvallis, OR

APPL-NO: 08747883

FILED-DATE: November 13, 1996

GRANTED-DATE: May 25, 1999

ASSIGNEE-AT-ISSUE: Hewlett-Packard Company, Palo Alto, CA

ASSIGNEE-AFTER-ISSUE: July 25, 1997 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., HEWLETT-PACKARD COMPANY 3000 HANOVER STREET PALO ALTO, CALIFORNIA 94304,, Reel and Frame Number: 008617/0831; January 16, 2001 - MERGER (SEE DOCUMENT FOR DETAILS)., HEWLETT-PACKARD COMPANY INTELLECTUAL PROPERTY ADMINISTRATION P.O. BOX 272400 FORT COLLINS, COLORADO 80527-240,, Reel and Frame Number: 011523/0469

LEGAL-REP: Potts, Jerry

PUB-TYPE: May 25, 1999 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 347#028


US-ADDL-CL: 347#033

IPC-MAIN-CL: B 41J002#165


SEARCH-FLD: 347#28 , 347#33 , 347#29 , 347#22 , 347#23 , 15#25605 , 134#169 R

PRIM-EXMR: Le, N.


ASST-EXMR: Tran, Thien

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Query/Command : us5907335/pn

** SS 1: Results 1

Search statement 2

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - QUESTEL-ORBIT -image

PN - US5907335 A 19990525 [US5907335]
TI - (A) Wet wiping printhead cleaning system using a non-contact technique for applying a printhead treatment fluid
PA - (A) HEWLETT PACKARD CO (US)
IN - (A) JOHNSON ERIC JOSEPH (US); MATTIS ERIC (US); MICHAEL DONALD L (US)

AP - US74788396 19961113 [1996US-0747883]
PR - US74788396 19961113 [1996US-0747883]
IC - (A) B41J-002/165
EC - B41J-002/165C2B
B41J-002/165C3
PCL - ORIGINAL (O) : 347028000; CROSS-REFERENCE (X) : 347033000
DT - Corresponding document
CT - US4050078; US4306245; US5300958; US5339098; US5396271; US5500659; US5552811; US5635965; US5706038; EP0465260 A2; EP0513833 A2; EP0671272 A2; JP54-133335; JP59-14693; JP59-14962; JP59-45162; JP59-45163; JP59-209876; JP2-202452; JP3-90362; JP3-99857; JP4-37556; JP4-338552; JP5-162320; JP6-234221

STG - (A) United States patent
AB - A wet-wiping printhead cleaning system including a treatment fluid applicator placing treatment fluid on at least one of two elements involved in wiping, said two elements being a printhead orifice plate surface and a wiper, the system being so configured that treatment fluid is applied before wiping the printhead by projecting treatment fluid onto at least one element through the atmosphere, thereby avoiding direct contact between the applicator and said one element, the treatment fluid being placed so as to be available to assist in wiping a portion of the printhead orifice plate where the nozzle orifices are located to remove debris that may have accumulated, the treatment fluid lubricating the wiper so as to lengthen wiper service life and enhance wiping performance, as well as acting to render such accumulations more removable by wiping, the source of treatment fluid being uncontaminated by contact with either the printhead or the wiper.

1/1 LGST-LEGSTAT

PN - US 5907335 [US5907335]
AP - US 747883/96 19961113 [1996US-0747883]
DT - US-P
ACT - 19961113 US/AE-A
APPLICATION DATA (PATENT)
US 747883/96 19961113 [1996US-0747883]
19970725 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
HEWLETT-PACKARD COMPANY 3000 HANOVER STREET PALO ALTO,
CALIFORNIA 94304 * JOHNSON, ERIC JOSEPH: 19961101; MATTIS, ERIC
19961112; MICHAEL, DONALD L. : 19961015
19990525 US/A
PATENT
19991109 US/CC
CERTIFICATE OF CORRECTION

UP - 2000-05

1 / 1 CRXX - CLAIMS/RRX

AN - 3151873
PN - 5,907,335 A 19990525 [US5907335]
PA - Hewlett-Packard Co
PT - E (Electrical)
ACT - 20010116 REASSIGNED
MERGER
Assignor: HEWLETT-PACKARD COMPANY DATE SIGNED: 05/20/1998
Assignee: HEWLETT-PACKARD COMPANY INTELLECTUAL PROPERTY
ADMINISTRATION P.O. BOX 272400 FORT COLLINS, COLORADO 80527-240
Reel 011523/Frame 0469
Contact: HEWLETT-PACKARD COMPANY VALERIE BAKES INTELLECTUAL
PROPERTYADMINISTRATIONP.O.BOX272400FORTCOLLINS,CO80527-2400

UP - 1999-44

URAS - 2001-07-10

1 / 1 PAST - Thomson Derwent

AN - 199945-000052
PN - 5907335 A [US5907335]
DT - A (UTILITY)
OG - 1999-11-09
CO - COR
ACT - CERTIFICATE OF CORRECTION
SH - CERTIFICATE OF CORRECTION

Query/Command : file inpadoc

Search statement 1

Query/Command : fam us5907335/pn

1 Patent Groups

*" SS 1: Results 6

Search statement 2

Query/Command : famstate nonstop

1/6 INPADOC - INPADOC

PN - DE 19749670 A1 19980514 [DE19749670]
TI - SYSTEM ZUM NASSREINIGEN EINES DRUCKKOPFES, BEI DEM EIN
DRUCKKOPF-BEHANDLUNGSFLUID OHNE DIREKTEN KONTAKT
AUFGEBRACHT WIRD
IN - JOHNSON ERIC JOSEPH [CA]; MATTIS ERIC [CA]; MICHAEL DONALD L [US]
PA - HEWLETT PACKARD CO [US]
AP - DE 19749670/97-A 19971110 [1997DE-1049670]
PR - US 747883/96-A 19961113 [1996US-0747883]
IC - B41J-029/17

1 / 1 LEGALI - LEGSTAT

PN - DE 19749670 [DE 19749670]
AP - DE 19749670/97 19971110 [1997DE-1049670]
DT - DE-P
ACTE - 19971110 DE/AE-A
DOMESTIC APPLICATION (PATENT APPLICATION)
DE 19749670/97 19971110 [1997DE-1049670]
19980514 DE/A 1 [+]
LAYING OPEN FOR PUBLIC INSPECTION
20010809 DE/8127
NEW PERSON/NAME/ADDRESS OF THE APPLICANT
HEWLETT-PACKARD CO. (N.D.GES.D.STAATES DELAWARE), PALO ALTO,
CALIF., US
UP - 2001-32

2 / 6 INPADOC - INPADOC

PN - GB 2319223 B2 20011212 [GB2319223]
TI - PRINthead WIPING SYSTEM
IN - JOHNSON ERIC JOSEPH [US]; MATTIS ERIC [US]; MICHAEL DONALD L [US]
PA - HEWLETT PACKARD CO [US]
AP - GB 9723936/97-A 19971112 [1997GB-0023936]
PR - US 747883/96-A 19961113 [1996US-0747883]
IC - B41 J-002/ 165

1/1 LEGALI-LEGSTAT

PN - GB 2319223 [GB2319223]

AP - GB 9723936/97 19971112 [1997GB-0023936]
 DT - GB-P
 ACTE - 19971112 GB/AE-A
 APPLICATION DATA
 G13 9723936/97 19971112 [1997GB-0023936]
 19980520 GB/A1
 APPLICATION PUBLISHED

 20011212 GB/132 [+]
 PATENT GRANTED
 UP - 2001-50

3 / 6 INPADOC - INPADOC

PN - GB 9723936 AO 19980107 [GB9723936]
 TI - PRINthead WIPING SYSTEM
 PA - HEWLETT PACKARD CO
 AP - GB 9723936/97-A 19971112 [1997GB-0023936]
 PR - US 747883/96-A 19961113 [1996US-0747883]

4 / 6 INPADOC - INPADOC

PN - GB 2319223 A1 19980520 [GB2319223]
 TI - WET WIPING PRINthead CLEANING SYSTEM
 IN - JOHNSON ERIC JOSEPH; MATTIS ERIC; MICHAEL DONALD L
 PA - HEWLETT PACKARD CO [US]
 AP - GB 9723936/97-A 19971112 [1997GB-0023936]
 PR - US 747883/96-A 19961113 [1996US-0747883]
 IC - B41J-002/165

1 / 1 LEGALI - LEGSTAT

PN - GB 2319223 [GB2319223]
 AP - GB 9723936/97 19971112 [1997GB-0023936]
 DT - GB-P
 ACTE - 19971112 GB/AE-A
 APPLICATION DATA
 GB 9723936/97 19971112 [1997GB-0023936]
 19980520 GB/A1
 APPLICATION PUBLISHED

 20011212 GB/132 [+]
 PATENT GRANTED
 UP - 2001-50

5 / 6 INPADOC - INPADOC

PN - JP 10146984 A2 19980602 [JP 10146984]
 TI - PRINTING HEAD CLEANING DEVICE FOR INK JET PRINTER
 IN - JOHNSON ERIC JOSEPH; MATTIS ERIC; MICHAEL, DONALD L
 PA - HEWLETT PACKARD CO

AP - JP 305736/97-A 19971107 [1997JP-0305736]
PR - US 747883/96-A 19961113 [1996US-0747883]
IC - B41 J-002/ 165


6 / 6 INPADOC - INPADOC

PN - US 5907335 A 19990525 [US5907335]
TI - WET WIPING PRINthead CLEANING SYSTEM USING A NON-CONTACT
TECHNIQUE FOR APPLYING A PRINthead TREATMENT FLUID
IN - JOHNSON ERIC JOSEPH [US]; MATTIS ERIC [US]; MICHAEL DONALD L [US]
PA - HEWLETT PACKARD CO [US]
AP - US 747883/96-A 19961113 [1996US-0747883]
PR - US 747883/96-A 19961113 [1996US-0747883]
IC - B41J-002/165

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PN - US 5907335 [US5907335]
AP - US 747883/96 19961113 [1996US-0747883]
DT - US-P
ACTS - 19961113 US/AE-A
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CALIFORNIA 94304 * JOHNSON, ERIC JOSEPH: 19961101; MATTIS, ERIC
19961112; MICHAEL, DONALD L. : 19961015
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